

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Hexim 1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human Hexim 2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Hexim 1 His213-Asp359 Accession # O94992
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Hexim 1, also known as CLP1, EDG1, HIS1, and MAQ1, is an approximately 60 kDa transcriptional regulator that binds double stranded RNA and inhibits RNA polymerase II. Hexim 1 plays an important role in many processes including satellite muscle cell regeneration, cardiovascular development, and HIV-1 replication. It can form homodimers and heterodimers with Hexim 2, and its activity is regulated by phosphorylation at Ser158. Hexim 1 inhibits the kinase activity of the elongation factor P-TEFb. This inhibition can be relieved by Hexim 1 interaction with Nucleophosmin or by cellular exposure to hexamethylene bisacetamide. Hexim 1 inhibits the transactivation function of the glucocorticoid, estrogen, and androgen receptors. It can inhibit the cellular response to hypoxia and promote cancer progression or, alternatively, can inhibit VEGF mediated angiogenesis and suppress metastasis. Within aa 213-359, human Hexim 1 shares 95% and 94% aa sequence identity with mouse and rat Hexim 1, respectively.

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